



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

401 M Street, S.W.
WASHINGTON, D.C. 20460

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DATA MATRIX

| | | |
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| Date Oct. 23, 2018 | EPA Reg No./File Symbol 81824-4 | Page 1 of 18 |
| Applicant's/Registrant's Name & Address Ensystem II, Inc. 2709 Breezewood Ave. Fayetteville, NC 28303 | Product ENS-100 | |

Ingredient: Bifenthrin (CAS No. 82657-04-3; Chemical Code: 128825)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|------------------------------------|--|-------------|-------------------|--------|---------------------------|
| PRODUCT SPECIFIC DATA REQUIREMENTS | | | | | |
| 830.1550 | Product identity and composition | 50694901 | Ensystem II, Inc. | OWN | |
| | | 47380701 | Ensystem II, Inc. | OWN | |
| | | 46788001 | Ensystem II, Inc. | OWN | |
| | | 46415301 | Ensystem II, Inc. | OWN | |
| 830.1600 | Description of Materials Used to Produce the Product | 50694901 | Ensystem II, Inc. | OWN | |
| | | 47380701 | Ensystem II, Inc. | OWN | |
| | | 46788001 | Ensystem II, Inc. | OWN | |
| | | 46415301 | Ensystem II, Inc. | OWN | |
| 830.1620 | Description of the Production Process | 50694901 | Ensystem II, Inc. | OWN | |
| | | 47380701 | Ensystem II, Inc. | OWN | |
| | | 46788001 | Ensystem II, Inc. | OWN | |
| | | 46415301 | Ensystem II, Inc. | OWN | |
| 830.1650 | Description of the Formulation Process | | | | Not required ¹ |
| 830.1670 | Discussion of Formation of Impurities | 50694901 | Ensystem II, Inc. | OWN | |
| | | 47380701 | Ensystem II, Inc. | OWN | |
| | | 46788001 | Ensystem II, Inc. | OWN | |
| | | 46415301 | Ensystem II, Inc. | OWN | |
| 830.1700 | Preliminary Analysis | 50694902 | Ensystem II, Inc. | OWN | |
| | | 47380702 | Ensystem II, Inc. | OWN | |
| | | 46797201 | Ensystem II, Inc. | OWN | |

Signature

Name and Title

Ann M. Tillman, PhD | Agent

Date

Oct. 23, 2018



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Ingredient: Bifenthrin (CAS No. 82657-04-3; Chemical Code: 128825)

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| | | 46415302 | Ensystem II, Inc. | OWN | |
| 830.1750 | Certified Limits | 50694901 | Ensystem II, Inc. | OWN | |
| | | 47380701 | Ensystem II, Inc. | OWN | |
| | | 46788001 | Ensystem II, Inc. | OWN | |
| | | 46415301 | Ensystem II, Inc. | OWN | |
| 830.1800 | Enforcement Analytical Method | 46415302 | Ensystem II, Inc. | OWN | |
| 830.6302 | Color | 46415303 | Ensystem II, Inc. | OWN | |
| 830.6303 | Physical State | 46415303 | Ensystem II, Inc. | OWN | |
| 830.6304 | Odor | 46415303 | Ensystem II, Inc. | OWN | |
| 830.6313 | Stability to Normal and Elevated Temperatures, Metals and Metal Ions | 46415303 | Ensystem II, Inc. | OWN | |
| 830.6314 | Oxidation/Reduction: Chemical Incompatibility | | | | Not required ² |
| 830.6315 | Flammability | | | | Not required ² |
| 830.6316 | Explosibility | | | | Not required ² |
| 830.6317 | Storage Stability | | | | Not required ² |
| 830.6319 | Miscibility | | | | Not required ² |
| 830.6320 | Corrosion Characteristics | | | | Not required ² |
| 830.6321 | Dielectric Breakdown Voltage | | | | Not required ² |
| 830.7000 | pH | 46415303 | Ensystem II, Inc. | OWN | |
| 830.7050 | UV/Visible Absorption | 46415303 | Ensystem II, Inc. | OWN | |
| 830.7100 | Viscosity | | | | Not required ² |

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| Applicant's/Registrant's Name & Address Ensystex II, Inc. 2709 Breezewood Ave. Fayetteville, NC 28303 | Product ENS-100 | |

Ingredient: Bifenthrin (CAS No. 82657-04-3; Chemical Code: 128825)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|----------------------------|--|-------------|-------------------|--------|-----------------------------|
| 830.7200 | Melting Point/Melting Range | 46415303 | Ensystex II, Inc. | OWN | |
| 830.7220 | Boiling Point/Boiling Range | | | | Not required ³ |
| 830.7300 | Density/Relative Density/Bulk Density | 46415303 | Ensystex II, Inc. | OWN | |
| 830.7370 | Dissociation Constants in Water | 46415303 | Ensystex II, Inc. | OWN | |
| 830.7520 | Particle size, fiber length, and diameter distribution | 46415303 | Ensystex II, Inc. | OWN | |
| 830.7550 | Partition Coefficient (n-octanol/water), Shake Flask Method | 46415303 | Ensystex II, Inc. | OWN | Not required ² |
| 830.7560 | Partition Coefficient (n-octanol/water), Generator Method | | | | See 830.7550 |
| 830.7570 | Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography | | | | See 830.7550 |
| 830.7840 | Water Solubility: Column Elution Method, Shake Flask Method | 46415303 | Ensystex II, Inc. | OWN | |
| 830.7860 | Water Solubility: Generator Column Method | | | | See 830.7840 |
| 830.7950 | Vapor Pressure | 46415304 | Ensystex II, Inc. | OWN | Waiver request ⁴ |
| | | | | | |
| 870.1100 | Acute oral toxicity – rat | 00132519 | | OLD | See endnote ⁵ |
| 870.1200 | Acute dermal toxicity – rat | 00132520 | | OLD | See endnote ⁶ |
| 870.1300 | Acute inhalation toxicity – rat | 46008101 | | OLD | See endnote ⁷ |
| | | 49108901 | FMC Corporation | PAY | |
| | | 49153401 | FMC Corporation | PAY | |

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Ingredient: Bifenthrin (CAS No. 82657-04-3; Chemical Code: 128825)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|----------------------------|------------------------------|--|-----------------------|-------------------|---------------------------|
| 870.2400 | Eye irritation | 00132522 | | OLD | See endnote ⁸ |
| 870.2500 | Skin irritation | 00132521 | | OLD | See endnote ⁹ |
| 870.2600 | Skin sensitization | 00132523 45924801 | | OLD OLD | See endnote ¹⁰ |
| GENERIC DATA REQUIREMENTS | | | | | |
| 850.2100 | Acute Avian Oral Toxicity | 00132532 (AC251727) 00132534 (AC251727) 49163801 | Bifenthrin Task Force | OLD OLD OWN | See endnote ¹¹ |
| 850.2200 | Acute Avian Dietary Toxicity | 00132533 (AC251727) 00132535 (AC251727) | | OLD OLD | See endnote ¹² |
| 850.2400 | Wild Mammal Toxicity | | | | See 870 series |

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Ingredient: Bifenthrin (CAS No. 82657-04-3; Chemical Code: 128825)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|---|--|--------------------------|---------------------------------|----------------------------|
| 850.2300 | Avian Reproductive Toxicity | 00163097 (AC264644) 00163098 (AC264644) 00163099 (AC264645) 00163100 (AC264645) | | OLD OLD OLD OLD | See endnote ¹³ |
| 850.2500 | Simulated or Actual Field Testing | | | | Not required ¹⁴ |
| 850.1075 | Freshwater Fish Toxicity | 00163156 00132536 | | OLD OLD | See endnote ¹⁵ |
| 850.1010 | Freshwater Invertebrate Toxicity | 00132537 41156501 49552201 | Pyrethroid Working Group | OLD OLD PAY | See endnote ¹⁶ |
| 850.1025, 850.1035, 850.1045, 850.1055, 850.1075 | Acute Toxicity Estuarine and Marine Organisms | 00163101 00163102 00163103 40383501 49060102 | Bifenthrin Task Force | OLD OLD OLD OLD OWN | See endnote ¹⁷ |
| 850.1300 | Aquatic Invertebrate Life Cycle (Freshwater) | 41156501 | | OLD | See endnote ¹⁸ |
| 850.1350 | Aquatic Invertebrate Life Cycle (Saltwater) | 49412102 | Bifenthrin Task Force | OWN | See endnote ¹⁹ |
| 850.1400 | Fish Early Life Stage (Freshwater) | 40791301 | | OLD | See endnote ²⁰ |

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| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
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| 850.1400 | Fish Early Life Stage (Saltwater) | 49412101 | Bifenthrin Task Force | OWN | See endnote ²¹ |
| 850.1500 | Life Cycle Fish | 49412101 | Bifenthrin Task Force | OWN | See endnote ²² |
| 850.1710, 850.1730, 850.1850 | Aquatic Organisms Bioavailability, Biomagnification, Toxicity | 00163094 00163095 42529902 | | OLD OLD OLD | Not required ²³ |
| 850.1950 | Simulated or Actual Field Testing for Aquatic Organisms | | | | Not required ²⁴ |
| 850.1735 | Whole Sediment: Acute Freshwater Invertebrates | | | | Not required ²⁵ |
| 850.1740 | Whole Sediment: Acute Marine Invertebrates | | | | Not required ²⁶ |
| N/A | Whole Sediment: Chronic Invertebrates Freshwater and Marine | 49277501 49277502 49692801 | Bifenthrin Task Force Bifenthrin Task Force Bifenthrin Task Force | OWN OWN OWN | See endnote ²⁷ |
| 850.3020 | Honey Bee Acute Contact Toxicity | 00132538 | | OLD | See endnote ²⁸ |
| 850.3030 | Honeybee Toxicity of Residues on Foliage | 00163104 | | OLD | See endnote ²⁹ |
| 850.3040 | Field Testing for Pollinators | | | | Not required |
| 870.6100 | Delayed Neurotoxicity (Acute) – Hen | 00141193 | | OLD | |
| 870.6200 | Acute Neurotoxicity – Rat | 44862102 | | OLD | See endnote ³⁰ |
| 870.3100 | 90-Day Oral: Rodent | 00141199 | | OLD | See endnote ³¹ |
| 870.3150 | 90-Day Oral: Non-Rodent | 00141200 | | OLD | See endnote ³² |
| 870.3200 | 21/28-Day Dermal Toxicity | 45280501 | | OLD | See endnote ³³ |

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|---|--|--|-----------------------|--------------------------|-------------------------------|
| 870.3250 | 90-Day Dermal Toxicity | 48807401 | Bifenthrin Task Force | OWN | Waived ³⁴ |
| 870.3465 | 90-Day Inhalation Toxicity | | | | Not required/ See 870.1300 |
| 870.6100 | 28-Day Delayed Neurotoxicity Hen | | | | Not required |
| 870.6200 | 90-Day Neurotoxicity | 44862103 | | OLD | See endnote ³⁵ |
| 870.4100 | Chronic Oral Rodent | 00157226 | | OLD | See endnote ³⁶ |
| 870.4200 | Carcinogenicity | 00157226 00157227 | | OLD OLD | See endnote ³⁷ |
| 870.3700 | Reproduction/Developmental Toxicity Screening Test | 00145997 45352301 | | OLD OLD | See endnote ³⁸ |
| 870.3800 | 2-Generation Reproduction: Rat | 00157225 | | OLD | See endnote ³⁹ |
| 870.6300 | Developmental Neurotoxicity Study | 46750501 | FMC Corporation | PER | See endnote ⁴⁰ |
| 870.5100 | Bacterial Reverse Mutation Test | 00132524 40383601 | | OLD OLD | |
| 870.5300, 870.5375 | In vitro Mammalian Cell Assay | 00141195 00141197 40383603 | | OLD OLD OLD | |
| 870.5385, 870.5395, 870.5450, 870.5550 | In vivo Cytogenetics and Other Effects | 00138111 00141194 40383602 40630001 | | OLD OLD OLD OLD | |

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| 870.7485 | Metabolism and Pharmacokinetics | 00163067 00163069 00163070 00163071 40415102 | | OLD OLD OLD OLD OLD | See endnote ⁴¹ |
| 870.7200 | Companion Animal Safety | | | | Not required |
| 870.7600 | Dermal Penetration | 00163072 41284202 41917502 41917503 | | OLD OLD OLD OLD | See endnote ⁴² |
| 870.7800 | Immunotoxicity | 49108801 | Bifenthrin Task Force | OWN | Waived ⁴³ |
| 875.1100 | Dermal Exposure – Outdoor | | PHED Data | PL | |
| 875.1200 | Dermal Exposure - Indoor | | | | Not required |
| 875.1300 | Inhalation Exposure – Outdoor | | PHED Data | PL | |
| 875.1400 | Inhalation Exposure - Indoor | | | | Not required |
| 875.1500 | Biological Monitoring | | PHED Data | PL | |
| 875.1600 | Data Reporting and Calculations | | PHED Data | PL | |
| 875.1700 | Product Use Information | | PHED Data | PL | |

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| 875.2100 | Dislodgeable Foliar Residue and Turf Transferable Residues | 42142201 44684401 44955201 | | OLD OLD OLD | |
| 875.2200 | Soil Residue Dissipation | | Outdoor Residential Exposure TF | OWN | See endnote ⁴⁴ |
| 875.2300 | Indoor Surface Residue Dissipation | | | | Not required |
| 875.2400 | Dermal Exposure | | Outdoor Residential Exposure TF | OWN | See endnote ⁴⁴ |
| 875.2500 | Inhalation Exposure | | Outdoor Residential Exposure TF | OWN | See endnote ⁴⁴ |
| 875.2600 | Biological Monitoring | | Outdoor Residential Exposure TF | OWN | See endnote ⁴⁴ |
| 875.2700 | Product Use Information | | Outdoor Residential Exposure TF | OWN | See endnote ⁴⁴ |
| 875.2800 | Descriptions of Human Activity | | Outdoor Residential Exposure TF | OWN | See endnote ⁴⁴ |
| 875.2900 | Data Reporting and Calculations | | Outdoor Residential Exposure TF | OWN | See endnote ⁴⁴ |
| 875.3000 | Nondietary Ingestion Exposure | | Outdoor Residential Exposure TF | OWN | See endnote ⁴⁴ |
| 201-1 | Droplet Size Spectrum | | | | Not required ⁴⁵ |
| 202-1 | Droplet Size Spectrum | | | | Not required ⁴⁵ |
| 850.4100 | Tier 1: Seedling Emergence | 49138401 | Bifenthrin Task Force | OWN | |
| 850.4150 | Tier 1: Vegetative Vigor | 49138402 | Bifenthrin Task Force | OWN | |

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| 850.4400, 850.4500 | Tier 1: Aquatic Plant Growth | 49060101 | Bifenthrin Task Force | OWN | See endnote ⁴⁶ |
| | | 49098201 | Bifenthrin Task Force | OWN | |
| | | 49098202 | Bifenthrin Task Force | OWN | |
| | | 49116101 | Bifenthrin Task Force | OWN | |
| | | 49134901 | Bifenthrin Task Force | OWN | |
| 850.4100 | Tier 2: Seedling Emergence | 49138401 | Bifenthrin Task Force | OWN | |
| 850.4150 | Tier 2: Vegetative Vigor | 49138402 | Bifenthrin Task Force | OWN | |
| 850.4400, 850.4500 | Tier 2: Aquatic Plant Growth | 49098201 | Bifenthrin Task Force | OWN | See endnote ⁴⁷ |
| | | 49098202 | Bifenthrin Task Force | OWN | |
| | | 49116101 | Bifenthrin Task Force | OWN | |
| | | 49134901 | Bifenthrin Task Force | OWN | |
| 850.4300 | Terrestrial Field | | | | Not required |
| 850.4450 | Aquatic Field | | | | Not required |
| 850.4025 | Target Area Phytotoxicity | | | | Not required |
| 850.4550 | Cyanobacteria Toxicity | 49060101 | Bifenthrin Task Force | OWN | See endnote ⁴⁸ |
| | | | | | |
| 890.1100 | Amphibian Metamorphosis | 48675901 | Bifenthrin Task Force | OWN | See endnote ⁴⁹ |
| 890.1150 | Androgen Receptor Binding (Rat Prostate) | 48615001 | Bifenthrin Task Force | OWN | See endnote ⁵⁰ |
| 890.1200 | Aromatase (Human Recombinant) | 48615002 | Bifenthrin Task Force | OWN | See endnote ⁵¹ |
| 890.1250 | Estrogen Receptor Binding | 48615003 | Bifenthrin Task Force | OWN | See endnote ⁵² |
| 890.1300 | Estrogen Receptor Transcriptional Activation Assay | 48615004 | Bifenthrin Task Force | OWN | See endnote ⁵³ |

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| | | |
|--|---------------------------------|---------------|
| Date Oct. 23, 2018 | EPA Reg No./File Symbol 81824-4 | Page 11 of 18 |
| Applicant's/Registrant's Name & Address Ensystem II, Inc. 2709 Breezewood Ave. Fayetteville, NC 28303 | Product ENS-100 | |

Ingredient: Bifenthrin (CAS No. 82657-04-3; Chemical Code: 128825)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|----------------------------|------------------------------|-------------|-----------------------|--------|---------------------------|
| 890.1350 | Fish Short-Term Reproduction | 48675902 | Bifenthrin Task Force | OWN | See endnote ⁵⁴ |
| 890.1400 | Hershberger (Rat) | 48615005 | Bifenthrin Task Force | OWN | See endnote ⁵⁵ |
| 890.1450 | Female Pubertal (Rat) | 48669401 | Bifenthrin Task Force | OWN | See endnote ⁵⁶ |
| 890.1500 | Male Pubertal (Rat) | 48669401 | Bifenthrin Task Force | OWN | See endnote ⁵⁷ |
| 890.1550 | Steroidogenesis | 48615006 | Bifenthrin Task Force | OWN | See endnote ⁵⁸ |
| 890.1600 | Uterotrophic (Rat) | 48615007 | Bifenthrin Task Force | OWN | See endnote ⁵⁹ |
| | | | | | |
| 835.2120 | Hydrolysis | 00132539 | Bifenthrin Task Force | OLD | See endnote ⁶⁰ |
| | | 49138403 | | OWN | |
| 835.2240 | Photodegradation in Water | 00163084 | FMC Corporation | OLD | See endnote ⁶¹ |
| | | 48882501 | | PAY | |
| 835.2410 | Photodegradation in Soil | 00163085 | | OLD | See endnote ⁶² |
| 835.2370 | Photodegradation in Air | | | | Not required |

Signature

Name and Title

Ann M. Tillman, PhD | Agent

Date

Oct. 23, 2018



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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Ingredient: Bifenthrin (CAS No. 82657-04-3; Chemical Code: 128825)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|----------------------------|--------------------------------|--|-----------------------|---|---------------------------|
| 835.4100 | Aerobic Soil Metabolism | 00152266 (AC073174) AC073225 AC141502 00132540 (AC251278) AC254401 00141202 (AC254411) 00163086 (AC264642) AC532540 48882502 | FMC Corporation | OLD OLD OLD OLD OLD OLD OLD OLD PAY | See endnote ⁶³ |
| 835.4200 | Anaerobic Soil Metabolism | 00163088 48882503 | FMC Corporation | OLD PAY | See endnote ⁶⁴ |
| 835.4300 | Aerobic Aquatic Metabolism | 48882504 | FMC Corporation | PAY | See endnote ⁶⁵ |
| 835.4400 | Anaerobic Aquatic Metabolism | 49364001 | Bifenthrin Task Force | OWN | See endnote ⁶⁶ |
| 835.1230, 830.1240 | Leaching/Adsorption/Desorption | 00132541 00141203 49175401 | Bifenthrin Task Force | OLD OLD OWN | See endnote ⁶⁷ |
| 835.1410 | Volatility – Laboratory | 41220601 | | OLD | See endnote ⁶⁸ |
| 835.8100 | Volatility – Field | | | | Reserved ⁶⁹ |

| | | |
|--|---|---------------------|
| Signature  | Name and Title Ann M. Tillman, PhD Agent | Date Oct 23 2018 |
|--|---|---------------------|



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Ingredient: Bifenthrin (CAS No. 82657-04-3; Chemical Code: 128825)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|----------------------------|--|--|---|--|---------------------------|
| 835.6100 | Soil Field Dissipation Study | 00163091 41673101 41671302 41673103 42339201 42339203 | | OLD OLD OLD OLD OLD OLD | See endnote ⁷⁰ |
| 835.6200 | Aquatic Sediment Field Dissipation Study | 40981803 40981805 40981808 40981812 40981814 40981815 40981816 40981817 40981818 40981819 | | OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD | See endnote ⁷¹ |
| 835.6300 | Forest Field Dissipation Study | | | | Not required |
| 835.6400 | Combination and Tank Mixes | | | | Not required |
| 835.7100 | Ground Water Monitoring | | | | Reserved ⁷² |
| 850.6100 | Environmental Chemistry Methods | 49024201 49168201 49189001 | Bifenthrin Task Force Bifenthrin Task Force Bifenthrin Task Force | OWN OWN OWN | |

Signature

Name and Title

Ann M. Tillman, PhD | Agent

Date

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Ingredient: Bifenthrin (CAS No. 82657-04-3; Chemical Code: 128825)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|----------------------------|--------------------------------|-------------|--------------------------|--------|---------------------------|
| SS-1099 | Leachability from Treated Wood | 47454101 | FMC Corporation | PAY | See endnote ⁷³ |
| | | 47454102 | FMC Corporation | PAY | |
| SS-1065 | POTW Treatability Study | 48762906 | Pyrethroid Working Group | PAY | See endnote ⁷⁴ |
| 860 Series | Residue Chemistry | | | | Not required |

Signature

Name and Title

Ann M. Tillman, PhD | Agent

Date

Oct. 23, 2018

Endnotes for Data Matrix for ENS-100

- ¹ **830.1650** - Per OPPTS 830.1000, these data are not required for the registration of a technical product. See 830.1620 for production process information.
- ² **830.6314, 830.6315, 830.6316, 830.6317, 830.6319, 830.6320, 830.6321, 830.7100** – Per OPPTS 830.1000, these data are not required for the registration of ENS-100.
- ³ **830.7220** – Boiling point/range data are only required for liquids. ENS-100 is a solid; see 830.7200 for melting point data.
- ⁴ **830.7950** - Waiver request. Ensyslex II, Inc. requested a waiver for the vapor pressure requirement on the basis that data are not required for materials that are a solid at room temperature and have a low vapor pressure.
- ⁵ **870.1100** – The study cited is acceptable and satisfies the data requirement as per the Aug. 29, 2017 Bifenthrin: Human Health Draft Risk Assessment for Registration Review, and Section 3 Risk Assessment for Proposed Uses on Avocado, *Brassica* Leafy Greens Subgroup 4-16B, Low Growing Berry Subgroup 13-07G, Peach subgroup 12-12B, Pepper/Eggplant Subgroup 8-10B, Pome Fruit 11-10 (except mayhaw), Pomegranate, Small Vine Climbing Subgroup 13-07F, Tomato Subgroup 8-10A; and Crop Group Conversions for Citrus Group 10-10, Caneberry Subgroup 13-07A, and Tree Nut Group 14-12 (DP Barcode D434404 and D436605) (Human Health RA).
- ⁶ **870.1200** – The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- ⁷ **870.1300** – MRID number 46008101 is acceptable and satisfies the data requirement as per the Human Health RA. MRID numbers 49108901 and 49153401 were submitted in response to the Jan. 12, 2012 Registration Review Data Call-In (DCI).
- ⁸ **870.2400** – The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- ⁹ **870.2500** – The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- ¹⁰ **870.2600** – MRID 00132523 is acceptable and satisfies the data requirement as per the Human Health RA. MRID 45924801 is also cited.
- ¹¹ **850.2100** – MRID numbers 00132532 and 00132534 are acceptable and partially satisfy the data requirement as per the Dec. 22, 2010 Revised EFED Registration Review Problem Formulation for Bifenthrin (DP Barcode D384352) (Problem Formulation), but passerine data were required. These data were submitted under MRID 49163801.
- ¹² **850.2200** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation.
- ¹³ **850.2300** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation.
- ¹⁴ **850.2500** – These data are not required as per the Problem Formulation.
- ¹⁵ **850.1075** – The studies cited are acceptable or supplemental and satisfy the data requirement as per the

Endnotes for Data Matrix for ENS-100

- ¹⁹ **850.1350** – The study cited is supplemental, but appears to satisfy the data requirement as per the Ecological RA.
- ²⁰ **850.1400** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.
- ²¹ **850.1400** – The study cited is acceptable and satisfies the data requirement as per the Ecological RA.
- ²² **850.1500** – The study cited is acceptable and satisfies the data requirement as per the Ecological RA. The DCI allows for submission of an early life stage to satisfy life cycle data requirements.
- ²³ **850.1710, 850.1730, 850.1850** – The studies cited are supplemental but satisfy the data requirement as per the Ecological RA.
- ²⁴ **850.1950** – These data are not required as per the Problem Formulation.
- ²⁵ **850.1735** – These data are not required as per the Problem Formulation.
- ²⁶ **850.1740** – These data are not required as per the Problem Formulation.
- ²⁷ **N/A** – MRID Numbers 49277501 and 49277502 are acceptable and satisfy the freshwater data requirement as per the Ecological RA. MRID 49692801 appears to be in review.
- ²⁸ **850.3020** – The study cited is acceptable and satisfies the data requirement as per the Ecological RA.
- ²⁹ **850.3030** – The study cited is acceptable and satisfies the data requirement as per the Ecological RA.
- ³⁰ **870.6200** – The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- ³¹ **870.3100** – The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- ³² **870.3150** – The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- ³³ **870.3200** – The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- ³⁴ **870.3250** – This data requirement is waived as per the Human Health RA.
- ³⁵ **870.6200** – The study cited is acceptable and satisfies the data requirement as per the Human Health RA.
- ³⁶ **870.4100** – The study cited is acceptable and satisfies the data requirement as per the Human Health RA. Chronic dog data are not cited as these data are not required as per the 2007 changes to 40 CFR Part 158.
- ³⁷ **870.4200** – The studies cited are acceptable and satisfy the data requirement as per the Human Health RA.
- ³⁸ **870.3700** – The studies cited are acceptable and satisfy the data requirement as per the Human Health RA.

Endnotes for Data Matrix for ENS-100

- ⁴³ **870.7800** – This data requirement is waived as per the Human Health RA.
- ⁴⁴ **875.2200, 875.2400, 875.2500, 875.2600, 875.2700, 875.2800, 875.2900, 875.3000** – Ensystex II, Inc. is a licensee in good standing of the Outdoor Residential Exposure Task Force; no agricultural uses are on Ensystex's II label.
- ⁴⁵ **201-1, 202-1** – These data are not required based on the registered use patterns for ENS-100.
- ⁴⁶ **850.4400, 850.4500** – The studies cited are acceptable and satisfy the data requirement as per the Ecological RA.
- ⁴⁷ **850.4400, 850.4500** – The studies cited are acceptable and satisfy the data requirement as per the Ecological RA.
- ⁴⁸ **850.4550** – The study cited is acceptable and satisfies the data requirement as per the Ecological RA.
- ⁴⁹ **890.1100** – The study cited is acceptable and satisfies the data requirements as per the June 29, 2015 Bifenthrin: Data Evaluation Records (DERs) for EDSP Tier 1 Assays (DP Barcode D398835) (EDSP DERs).
- ⁵⁰ **890.1150** – The study cited is acceptable and satisfies the data requirements as per the EDSP DERs.
- ⁵¹ **890.1200** – The study cited is acceptable and satisfies the data requirements as per the EDSP DERs.
- ⁵² **890.1250** – The study cited is acceptable and satisfies the data requirements as per the EDSP DERs.
- ⁵³ **890.1300** – The study cited is acceptable and satisfies the data requirements as per the EDSP DERs.
- ⁵⁴ **890.1350** – The study cited is acceptable and satisfies the data requirements as per the EDSP DERs.
- ⁵⁵ **890.1400** – The study cited is acceptable and satisfies the data requirements as per the EDSP DERs.
- ⁵⁶ **890.1450** – The study cited is acceptable and satisfies the data requirements as per the EDSP DERs.
- ⁵⁷ **890.1500** – The study cited is acceptable and satisfies the data requirements as per the EDSP DERs.
- ⁵⁸ **890.1550** – The study cited is acceptable and satisfies the data requirements as per the EDSP DERs.
- ⁵⁹ **890.1600** – The study cited is acceptable and satisfies the data requirements as per the EDSP DERs.
- ⁶⁰ **835.2120** – The studies cited are supplemental but satisfy the data requirement as per the Ecological RA.
- ⁶¹ **835.2240** – The studies cited are supplemental but satisfy the data requirement as per the Ecological RA.
- ⁶² **850.2410** – The study cited is acceptable and satisfies the data requirement as per the Ecological RA.
- ⁶³ **835.4100** – The studies cited are acceptable or supplemental but satisfy the data requirement as per the Ecological RA.
- ⁶⁴ **835.4200** – The studies cited are acceptable or supplemental but satisfy the data requirement as per the Ecological RA.
- ⁶⁵ **835.4300** – The study cited is supplemental but satisfies the data requirement as per the Ecological RA.

Endnotes for Data Matrix for ENS-100

⁷¹ **835.6200** – The studies cited are supplemental but satisfy the data requirement as per the Ecological RA.

⁷² **835.7100** – The data requirement is reserved as per the Problem Formulation.

⁷³ **SS-1099** – The studies cited are acceptable and satisfy the data requirement as per the Ecological RA.

⁷⁴ **SS-1065** – The study cited is supplemental but appears to satisfy the data requirement as per the Ecological RA.